

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	40	("4553420"   "4829669"   "5065504"   "5074139"   "5226226"   "5263242"). PN. OR ("5375320").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/24 14:18
L5	15	("4203129"   "5086337"   "5166774"   "5367195"   "5375320"   "5518964"). PN. OR ("5663596").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/24 16:00
L6	372	348/374.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/24 16:01
L7	486	348/375.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/24 16:01
L8	488	438/64.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/24 16:01
L17	482	257/729.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/24 16:03
L18	465	257/726.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/24 16:02
L19	970	257/730.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/24 16:02
L20	394	257/731.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/24 16:02

## EAST Search History

L21	581	257/735.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/24 16:02
L22	244	257/736.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/24 16:02
L23	2508	257/737.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/24 16:02
L24	595	257/785.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/24 16:03
L25	573	438/144-148.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/24 16:03
L26	79	438/402.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/24 16:05
L27	31	((timo with herranen) (esa-sakari with maatta)).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/24 16:06

## EAST Search History

S1	788	348/294.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/22 09:53
S3	8846	(imager or (solid near2 state) or sensor or ccd) near4 (slide or sliding)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 09:56
S4	416	(imager or (solid near2 state) or sensor or ccd) near4 (slide or sliding) and ("348"/\$.ccls. or "250"/\$.ccls. or "438"/\$.ccls. or "257"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 09:57
S5	3	("20030151594"   "20050110755"   "6333733").PN. OR ("7161136").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 10:11
S6	611	257/730.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 10:38
S7	130	sensor with leads with spring	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 16:45
S8	17	sensor with leads with spring and (camera or image)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 10:40
S9	12	package with leads with spring and (camera or image)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 10:40
S10	22	package with lead with spring and (camera or image)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 10:40
S11	9	("4774768").URPN.	USPAT	OR	OFF	2007/03/22 10:43
S12	4	insert\$4 near4 sensor near4 package same spring	USPAT	OR	OFF	2007/03/22 10:44
S13	9	insert\$4 near4 sensor near4 package same spring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/22 10:44

## EAST Search History

S14	92	push\$4 near4 sensor near4 package same spring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/22 10:47
S15	0	S14 not knowles not tsikos not zhu	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/22 10:46
S16	0	S14 not knowles.in. not tsikos.in. not zhu.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/22 10:49
S17	228	push\$4 near4 sensor same spring and image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/22 10:47
S18	136	S17 not knowles.in. not tsikos.in. not zhu.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/22 10:49
S19	31	("3559004"   "4030001"   "4825282"   "4879589"   "5057904"   "5233873"   "5258647"   "5345823"   "5394009"   "5414298"   "5434357"   "5446316"   "5468910"   "5471011"   "5503016"   "5551294"   "5623167"   "5789804"). PN. OR ("6040625").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 11:01
S20	968	257/719.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 11:01
S21	15	("4203129"   "5086337"   "5166774"   "5367195"   "5375320"   "5518964"). PN. OR ("5663596").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 11:19
S22	19	("5367195").URPN.	USPAT	OR	OFF	2007/03/22 11:21

## EAST Search History

S23	18	("5104324"   "5291061"   "5323060"   "5419712"   "5663596"   "5677567"   "5788510"   "5995378"   "6025730"   "6037669"   "6088237"   "6107122"   "6144560"   "6151220"   "6172413"   "6198636"   "6297542").PN. OR ("6365437").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 11:21
S24	2	("6198636").URPN.	USPAT	OR	OFF	2007/03/22 12:06
S25	8365	(exchang\$5 or plug\$4play or detach\$5 or attach\$4) near4 (sensor or ccd or imager) and (camera or image)	USPAT	OR	ON	2007/03/22 13:56
S26	495	(exchang\$5 or plug\$4play or detach\$5 or attach\$4) near4 (sensor or ccd or imager) same substrate and (camera or image)	USPAT	OR	ON	2007/03/22 12:07
S27	366	JOHNSON with BRIAN.xa.	USPAT	OR	ON	2007/03/22 13:57
S28	2979	JOHNSON with BRIAN.xp.	USPAT	OR	ON	2007/03/22 13:57
S29	489	JOHNSON with BRIAN.xp. and sensor	USPAT	OR	ON	2007/03/22 13:59
S30	152	pizarro with cresco with marcos	USPAT	OR	ON	2007/03/22 14:36
S31	8	361/296.ccls. and sensor	USPAT	OR	ON	2007/03/22 14:37
S32	38	361/727.ccls. and sensor	USPAT	OR	ON	2007/03/22 14:38
S33	5	361/741.ccls. and sensor	USPAT	OR	ON	2007/03/22 14:38
S34	190	361/741.ccls.	USPAT	OR	ON	2007/03/22 14:38
S35	826	mov\$4 near4 (sens\$4 or imager or ccd or (solid near3 state near3 sens\$4)) with substrate	USPAT	OR	ON	2007/03/22 14:45
S36	111	(sens\$4 or imager or ccd or (solid near3 state near3 sens\$4)) with lead with spring and substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 16:03
S38	52	(sens\$4 or imager or ccd or (solid near3 state near3 sens\$4)) near5 spring same (substrate or pcb) and (camera or phone or (imag\$4 near2 (device r aparatus or pick\$4up)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 14:59
S39	72	(sens\$4 or imager or ccd or (solid near3 state near3 sens\$4)) near5 (move\$4 mov\$4 mov\$3 or adjust\$4 or slid\$4 or chang\$4) near7 (height) same (substrate or pcb) and (camera or phone or (imag\$4 near2 (device r aparatus or pick\$4up)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 15:09

## EAST Search History

S40	11	(sens\$4 or imager or ccd or (solid near3 state near3 sens\$4)) with (move\$4 mova\$4 mov\$3 or adjust\$4 or slid\$4 or chang\$4) with (height) with package and (substrate or pcb) and (camera or phone or (imag\$4 near2 (device or apparatus or pick\$4up)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 15:15
S41	4	justin with misleh and nikon.as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 15:44
S42	13	("5142137"   "5847938"   "5952714"   "6018461"   "6156587"   "6239359"   "6249653"   "6381124"   "6403964"   "6420649"   "6485595"   "6496285"). PN. OR ("6900843").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 15:16
S43	2887	"361"/\$.ccls. and spring with slid\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 15:19
S44	86	(sens\$4 or imager or ccd or (solid near3 state near3 sens\$4)) with lead with slid\$4 AND IMAGE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 17:28
S45	96	adjust\$4 with (sensor or ccd) with height with substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 16:00
S46	936	348/373.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/24 16:01

## EAST Search History

S47	69	S46 and package	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 16:00
S48	1018	(sens\$4 or imager or ccd or (solid near3 state near3 sens\$4)) with slid\$4 with (package or mount)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 16:04
S49	613	(sens\$4 or imager or ccd or (solid near3 state near3 sens\$4)) with slid\$4 near5 (package or mount)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 16:05
S50	167	S49 and camera	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 16:05
S51	73	S50 not tsikos not knowles not zhu	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 16:10
S52	17	("20020118291" "4559550" "4837630"  "5291294" "5742659" "5969759" "68 22213" "6831688").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 16:11
S53	59	("5040069" "5130804" "5418566" "55 61458" "5617131" "5777335" "582153 2" "5847887" "6011860" "6122009" "6 172351" "6172361" "6187522" "63694 35" "6392703" "6512219" "6571466" " 6603107" "6724503" "6727564" "6745 061" "6768516" "6943424" "7110033" ).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 16:19

## EAST Search History

S54	1714	(ccd or sensor or imager) with (package or mount or enclosure or housing) with (attach\$4 or detach\$4 or insert\$4 or push\$4 or slid\$4 or remov\$5) with (pcb or substrate or (circuit near2 board) or chip)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 16:23
S55	0	09/652150	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 16:21
S56	613	(ccd or sensor or imager) with (package or mount or enclosure or housing) with (attach\$4 or detach\$4 or insert\$4 or push\$4 or slid\$4 or remov\$5) with (pcb or substrate or (circuit near2 board) or chip) same (leads or connector or wire or wiring)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 16:26
S57	521	S56 not tsikos not knowles not zhu	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 16:37
S58	88	adjust\$4 with (sensor or imager or camera or ccd) near2 (package or mount or (solid near2 state)) with (position or height or location) with axis	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 16:39
S59	4	("4734778"   "4803557"   "4918521"   "5157251").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 16:41
S60	4	("5270534").URPN.	USPAT	OR	OFF	2007/03/22 16:42
S61	4554	(mount\$4 or package) with receiv\$3 with (ccd or sesnor or camera or cmos or imager) and image	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 17:27
S62	4438	S61 not tsikos not knowles not zhu	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 16:47
S63	2655	S62 and ("348"/\$ or "396"/\$ or "358"/\$ or "257"/\$ or "361"/\$ or "438"/\$).ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 16:47

## EAST Search History

S64	2531	S63 and camera	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 17:31
S65	40	(sens\$4 or imager or ccd or (solid near3 state near3 sens\$4)) with lead with (slide or sliding) AND IMAGE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 17:29
S66	273	348/87.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 17:34
S67	126	348/142.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 17:35
S68	6396	solid near2 state near3 image near4 sens\$4	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 17:36
S69	3054	S68 and (pcb or substrate)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 17:37
S70	1303	S69 and (connector or lead)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 17:37
S71	107	S70 and (mov\$3 or displac\$4 or shift\$4) with across	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 17:40
S72	24	(imager or sensor or ccd or cmos or camera) near3 (package or mount) same screws same substrate	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 17:41
S73	24	(imager or sensor or ccd or cmos or camera) near3 (package or mount) same screw same substrate	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 17:48
S74	3	("6686954" "5523811" "4780739").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 17:42
S75	14	("4543601"   "4734726"   "4780739"   "4998164"   "5172233"   "5502483"   "5502484"   "5523811"   "5654752"   "5657080"   "5850254"   "5861915"   "5867213"   "6285400").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 17:42
S76	11	("3689695"   "4420238"   "4881800"   "4910591"   "4911545"   "5027200"   "5121200"   "5170255"   "5175580"   "5198856"   "5289321").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 17:44

## EAST Search History

S77	11	("3455221"   "3491668"   "3561870"   "3577205"   "3703999"   "4013339"   "4198140"   "4404592").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 17:45
S78	14	("4543601"   "4734726"   "4780739"   "4998164"   "5172233"   "5502483"   "5502484"   "5523811"   "5654752"   "5657080"   "5850254"   "5861915"   "5867213"   "6285400").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 17:46
S79	6	("3839632"   "4059346"   "4467361"   "4725890"   "5498868"   "5862003").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 17:46
S80	11	("3689695"   "4420238"   "4881800"   "4910591"   "4911545"   "5027200"   "5121200"   "5170255"   "5175580"   "5198856"   "5289321").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 17:46
S81	1	("5920120").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 17:49
S82	2267	"257"/\$.ccls. and lead and substrate and screw	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 17:50
S83	229	"257"/\$.ccls. and lead same substrate same screw	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 18:04
S84	3	("20020005997" "6469844" "6528778").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 18:07
S85	550	257/785.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 18:07
S86	1	257/785.ccls. and ccd	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 18:07
S87	11	257/785.ccls. and sensor	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 18:07
S88	31	("3559004"   "4030001"   "4825282"   "4879589"   "5057904"   "5233873"   "5258647"   "5345823"   "5394009"   "5414298"   "5434357"   "5446316"   "5468910"   "5471011"   "5503016"   "5551294"   "5623167"   "5789804").PN. OR ("6040625").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 18:10
S89	66	("5243223").PN. OR ("5394009").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 18:11